

## **ABSTRACT**

The invention features a method of identifying a compound that inhibits (a) the physical interaction (binding) between MUC1 and tumor progressors (e.g.,  $\beta$ -catenin, c-Src, EGF-R, p120<sup>ctn</sup>, or PKC $\delta$ ) and/or (b) phosphorylation of MUC1 by tumor progressors with kinase activity (e.g., c-Src, EGF-R, or PKC $\delta$ ). The invention also includes a method of inhibiting an interaction between MUC1 and  $\beta$ -catenin and a method of inhibiting expression of MUC1 or a tumor progressor in a cell.

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